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 TI Process for the production of white or coloured cement in vertical shaft kiln
 IN Saboo, Durga Prasad
 PA India
 SO Indian, 30 pp.
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 LA English
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 CC 58-1 (Cement, Concrete, and Related Building Materials)
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	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	IN 162194	A	19880416	IN 1984-CA50	19840124
PRAI	IN 1984-CA50		19840124		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
IN 162194	ICM	C04B007-00

AB The title process comprises grinding limestone 70-75, china clay 10-15, quartz 3-5, and coke/coal 10-20 weight%, granulating the powdered materials, and

calcining the nodules in a vertical shaft kiln at temperature 1300-1600°. The obtained **clinker** is mixed with CaSO₄ 4-6 weight% and ground to produce cement. Raw materials for white cement contain BaSO₄, BaO, CaF₂, NaSiF, Na₂SO₄ ≤ 0.2 weight% to improve the firing properties, and NH₄Cl or NH₄(CO₃)₂ ≤ 1 weight to improving the whiteness of the cement. Premixed solid fuel is added to increase fuel efficiency.

Colored cement is obtained by adding compds. of metals (Zr, Ti, Mn, Co, Ni, Cr, V, B) as pigments at ≤10 weight%.

The invented process is more economical and the produced cement has improved luster and stability of color shade.

ST white **colored cement** prodn; vertical shaft kiln cement prodn

IT Kaolin, uses and miscellaneous
 Limestone, uses and miscellaneous
 RL: USES (Uses)

(cement containing, white or colored)

IT Coal
 RL: USES (Uses)

(in white or **colored cement** production)

IT **Cement**
 (white or **colored**)